

M 5.3, Mindanao, Philippines

Origin Time: 2023-12-04 04:17:21 UTC (Mon 12:17:21 local)
Location: 8.8795° N 126.7993° E Depth: 29.3 km

PAGER Version 4

Created: 1 day, 0 hours after earthquake

Estimated Fatalities

Green alert for shaking-related fatalities and economic losses. There is a low likelihood of casualties and damage.

Estimated Economic Losses

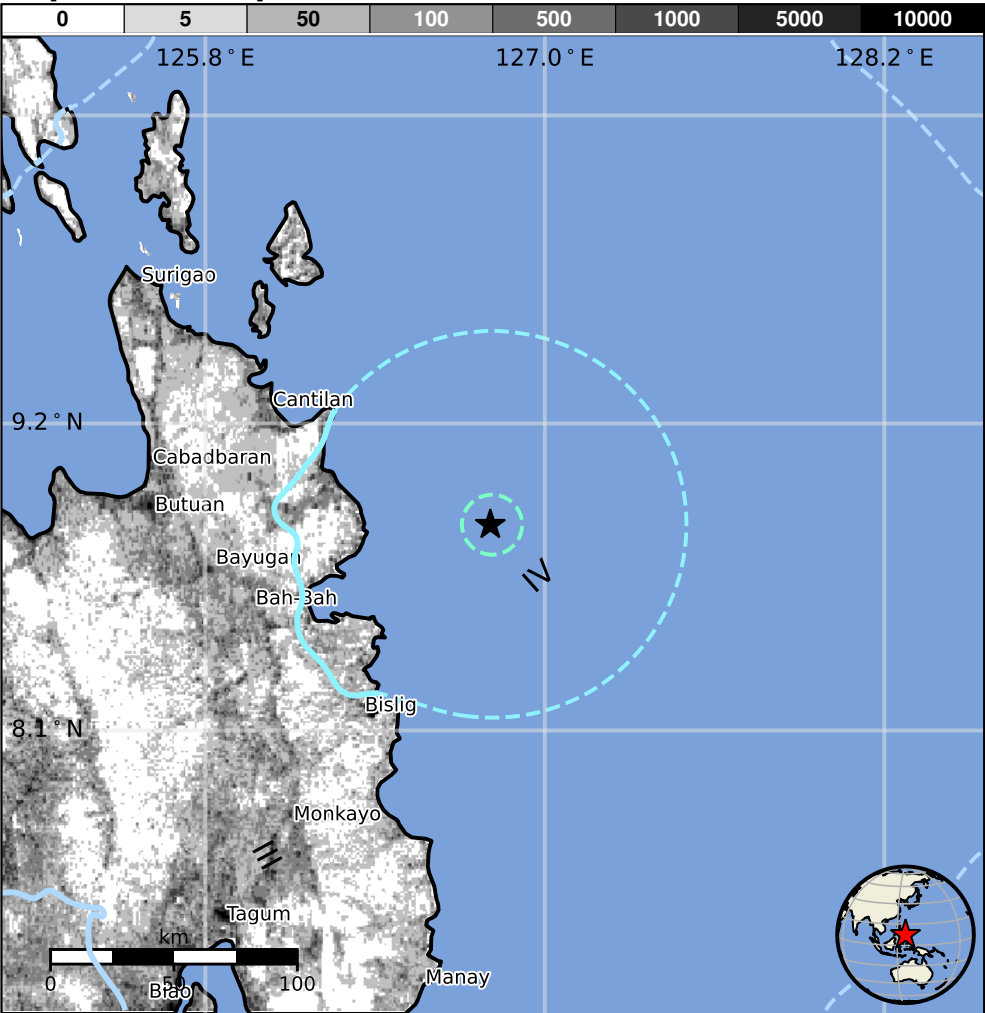


Estimated Population Exposed to Earthquake Shaking

| | | | | | | | | | | |
|---|-----------------------|----------|--------|-------|----------|----------|-------------|------------|----------|----------|
| ESTIMATED POPULATION EXPOSURE (k=x1000) | | —* | 7,180k | 407k | 0 | 0 | 0 | 0 | 0 | 0 |
| ESTIMATED MODIFIED MERCALLI INTENSITY | | I | II-III | IV | V | VI | VII | VIII | IX | X+ |
| PERCEIVED SHAKING | | Not felt | Weak | Light | Moderate | Strong | Very Strong | Severe | Violent | Extreme |
| POTENTIAL DAMAGE | Resistant Structures | None | None | None | V. Light | Light | Moderate | Mod./Heavy | Heavy | V. Heavy |
| | Vulnerable Structures | None | None | None | Light | Moderate | Mod./Heavy | Heavy | V. Heavy | V. Heavy |

*Estimated exposure only includes population within the map area.

Population Exposure



Structures

Overall, the population in this region resides in structures that are a mix of vulnerable and earthquake resistant construction. The predominant vulnerable building types are unknown/miscellaneous types and heavy wood frame construction.

Historical Earthquakes

| Date (UTC) | Dist. (km) | Mag. | Max MMI(#) | Shaking Deaths |
|------------|------------|------|------------|----------------|
| 1999-12-15 | 366 | 4.8 | VI(34k) | 1 |
| 1987-05-23 | 173 | 5.7 | VII(70k) | 1 |
| 1989-12-15 | 58 | 7.5 | VIII(1k) | 2 |

Recent earthquakes in this area have caused secondary hazards such as landslides that might have contributed to losses.

Selected City Exposure

| MMI | City | Population |
|-----|-----------|------------|
| IV | Cagwait | <1k |
| IV | Tago | 6k |
| IV | La Paz | 2k |
| IV | Bayabas | <1k |
| IV | Marihatag | 4k |
| IV | Bacolod | 2k |
| III | Libertad | 250k |
| III | Butuan | 310k |
| III | Surigao | 88k |
| III | Magugpo | 233k |
| III | Panabo | 85k |